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10/544,1	66 '	10/16/2006	Vladimir Nikolajevic	282823US8XPCT	7760
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				EXAMINER	
				AKBAR, MUHAMMAD A	
				ART UNIT	PAPER NUMBER
		·		2618	
SHORTENED	STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		NTHS	. 03/26/2007	ELECTRONIC	

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	Application No.	Applicant(s)					
Office Action Summan	10/544,166	NIKOLAJEVIC ET AL					
Office Action Summary	Examiner	Art Unit					
	Muhammad Akbar	2618					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		Ε					
1)⊠ Responsive to communication(s) filed on 29 Ju	lv 2005	·					
• • • • • • • • • • • • • • • • • • • •	This action is FINAL . 2b)⊠ This action is non-final.						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.							
, ,	4a) Of the above claim(s) is/are withdrawn from consideration.						
:	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-29</u> is/are rejected.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>7/29/2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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4. Claim(s) 1,11-18, 19-26, 27 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Markhovsky et al (U.S. Pub. No. 2006/0012476 A1) and in view of Yamazaki (U.S. Pub. No. 2003/0236096 A1).

Re claim 1, Markhovsky discloses a wireless system (20 of fig.1) for determining the location of mobile terminal wherein Bluetooth (short range wireless communication) technology can be combined (para[0062]) for communication system with a Master unit (21 o fig.2A) i.e. first terminal and a Slave unit (31 of fig.3A) i.e. mobile terminal that are each adapted for transmitting and receiving an information carrying signal wave through transmitter (43 of fig.2) and receiver (45 of fig.2) of Master unit's (21) and transmitter(63 of fig.3) and receiver (65 of fig. 3) of Slave unit's (31); whereby at least the Master unit(21) or the slave unit(31) comprises processor unit (40 of fig.2 and 60 of fig.3) includes a digital signal processor (74 of fig.5) that convert the signal analog to digital by converter (80 of fig.5) and decoder (46 of fig.2) decoded the receiving information carrying signal based on received signal strength indicator (119 of fig. 5); and transmitter section (41 of fig.5) includes a digital to analog converter (86 of fig.5) and frequency converter (88 of fig.5) for transmitting the signal through antenna(47 of fig.2 and 67 of fig.3); and the processor unit (40 and 60) [control the directional characteristics according to the position of the mater or slave unit] configured to determine the position information corresponding to the direction of the location of master and slave unit terminal by virtual triangulation findings techniques (see abstract, fig.1-4,5,7para[0188].

But failed to disclose explicitly transmitting and / receiving information carrying signal wave with a directional characteristics. However, Yamazaki teaches mobile

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station controlling antenna directionality (same field of endeavor) wherein mobile terminal comprises antenna controller (102 of ig.2), plurality of antenna (101 of fig.2), a combiner, a reception (104 of fig.2) and transmission module (105 of fig.2); and antenna controller (102) has phase shifter that control the directionality of the phased array antenna is executed by computing based on the traveling direction angel(θ) (see fig.2,3,4 para [0035]-[0038][MT reception/transmission information carrying signal wave with directional characteristics)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit wherein transmitting and receiving information signal wave; and master unit and slave unit has a digital signal processing unit for converting the signal and control the direction of the signal according to the position of the communication devices (as taught by Markhovsky) by incorporating antenna controller that has phase shifter for controlling the signal traveling direction (as taught by Yamazaki) to increase signal strength and enhancing communication quality between the master and slave unit.

Re claim 19 and 20, as discussed above with respect to claim 1, Markhovsky further discloses a short-range wireless mobile communication system characterized that the master unit (21) i.e. first terminal and slave unit (31) i.e. mobile terminal comprises controllable directional signal frequency (wave) converter (88 of fig.5 and 80 of fig.5)[DSP control unit controlled reception and transmission wave signal which

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includes directional information of the mater/slave unit]; and Yamazaki further teaches antenna controller (102 of fig.2) that convert omnidirectional signal wave by the phase shifter (see fig.2 and 4, para[0038]).

Re claim 21, as discussed above with respect to claim 1, Yamazaki further teaches the directional signal wave phase shifter (converter) is formed by a mechanical steerable directional signal wave converter by antenna controller (102) phase shifter (see fig.4).

Re claim 22, as discussed above with respect to claim 1, Markhovsky teaches all the limitation except directional signal wave converter is formed by an adaptive signal wave converter array. However, Yamazaki further teaches antenna control circuit (102 of fig.2) controlled directionality of the antenna (101) and this result is forming (converting) a phased array antenna (see fig.2 and para[0022]).

Re claim 23, as discussed above with respect to claim 1, Markhovsky further teaches the signal wave converter on master unit i.e. first terminal and the signal wave converter on the slave unit i.e. mobile terminal are each adapted for transmitting and receiving information in a form of a radio frequency wave(see fig.1 and para[0064]).

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Re claim 24, as discussed above with respect to claim 23, Markhovsky further discloses that an antenna (47 of fig 2A and 67 of fig 3A) forms a signal wave converter by the signal processing unit and frequency converter (see fig.2A,3A).

Re claim 26, as discussed above with respect to claim 1, Markhovsky further discloses that the master unit (21 of fig.1) i.e. first terminal is a stationary terminal (see fig.1 and para[0287]).

Re claim 11, Markhovsky discloses a wireless system (20 of fig.1) for determining the location of mobile terminal wherein Bluetooth (a short range wireless communication) technology can be combined (para[0062]) for communication system with a Master unit (21 o fig.2A) i.e. first terminal and a Slave unit (31 of fig.3A) i.e. mobile terminal that are each adapted for transmitting and receiving an information carrying signal wave through transmitter (43 of fig.2) and receiver (45 of fig.2) of Master unit's (21) and transmitter(63 of fig.3) and receiver (65 of fig. 3) of Slave unit's (31); whereby at least the Master unit(21) or the slave unit(31) comprises processor unit (40 of fig.2 and 60 of fig.3) includes a digital signal processor (74 of fig.5) that convert the signal analog to digital by converter (80 of fig.5) and decoder (46 of fig.2) decoded the receiving information carrying signal based on received signal strength indicator (119 of fig. 5); and transmitter section (41 of fig.5) includes a digital to analog converter (86 of fig.5) and frequency converter (88 of fig.5) for transmitting the signal through antenna(47 of fig.2 and 67 of fig.3);and determining movement monitoring by virtual

triangulation successive pattern technique wherein slave unit (31) is located within the range of master unit i.e.monitoring unit (21 of fig 23) and measure the distance to a slave unit (31) and direction location is measured by using cosine theorem(i.e. adjusting the directional characteristics) after adjusting the additional measurement(see abstract, fig.1–4,5,7,23 para[0228]-[0233]).

But failed to disclose explicitly transmitting and / receiving information carrying signal wave with a directional characteristics. However, Yamazaki teaches mobile station controlling antenna directionality (same field of endeavor) wherein mobile terminal comprises antenna controller (102 of ig.2), plurality of antenna (101 of fig.2), a combiner, a reception (104 of fig.2) and transmission module (105 of fig.2); and antenna controller (102) has a phase shifter that control the directionality of the phased array antenna is executed by computing based on the traveling direction angel(θ) and control parameter (see fig.2,3,4 para [0035]-[0038][Mobile terminal received/transmitted information carrying signal wave with directional characteristics).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit wherein transmitting and receiving information signal wave; and master unit and slave unit has a digital signal processing unit for converting the signal and measure movement direction by using virtual triangular successive pattern movement technique direction adjusted by cosine theorem (as taught by Markhovsky) by incorporating antenna controller that has phase shifter for controlling the signal traveling direction (as taught by Yamazaki) to increase reception

signal strength and lowering the consumption of the load by rapid controlling the antenna directionality of the short range wireless communication system.

Re claim 12, as discussed above with respect to claim 11, Markhovsky further discloses the movement monitoring means is located on the slave unit (31) i.e.mobile terminal and/or on the monitoring unit(21) i.e.first terminal (see fig.23-33 and para[0229]).

Re claim 13,14 and 15, as discussed above with respect to claim 11, Markhovsky discloses all the limitations except the movement monitoring means comprises a sensor means for providing one or more electrical signals corresponding to one or more physical quantities related to the movement of the mobile terminal relative to the first terminal; and the sensor means comprises an acceleration sensor for providing an electrical signal indicating an acceleration value associated with the movement of the terminal housing the sensor means; and the sensor means comprises a gyroscope sensor for providing an electrical signal indicating an orientation value associated with the movement of the terminal housing the sensor means. However, Yamazaki teaches movement monitoring sensor (vehicle movement monitoring sensor) includes a speed sensor(110 of fig.2) i.e acceleration sensor that detects vehicles speed for providing more electrical signal; and gyroscope (111 of fig.2) that detects angel of traverse for providing an electrical signal indicating first value and position change by GPS location system(see fig.2 and para[0028],[0031])

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit and measure movement direction by using virtual triangular successive pattern movement technique (as taught by Markhovsky) by incorporating speed sensor and gyroscope sensor for determining speed of the movement and angle for providing current location of the vehicles (as taught by Yamazaki) to get high quality communication by providing sensor that help to easy determine a position and location with angle of the moving devices and monitoring unit for a short range wireless communication system.

Re claim 16, as discussed above with respect to claim 11, Markhovsky further discloses the movement monitoring technique provides tracking data to a direction calculation by cosine theorem with the help of digital processing unit (control unit) for tracking data are based on a movement monitored of slave unit or target (para[0188]); and Yamazaki further teaches a vehicles unit i.e. slave unit wherein sensor (110 and 111) help to get quick determination of location and easy to calculate distance (fig.2 para[0028] and [0031])

Re claim 17,as discussed above with respect to claim 16, Markhovsky further discloses that the direction calculation means calculate the next successive movement by the control unit using cosine theorem i.e. slave unit send information to the monitoring unit to perform the distance measurement and the unit calculate values for

the distances of salve unit (31,32,33,34 of fig.1) i.e. mobile terminal relative to the monitoring unit i.e. first terminal for the time of the next following exchange of information carrying signals (see para[0229]).

Re claim 18, as discussed above with respect to claim 16, Markhovsky further discloses the direction calculation performed by the control unit to provides a control signal to the direction adjustment by using cosine theorem which is based on the tracking findings in real both stationary and moving target and direction of movement to achieve optimal performance (para[0233]); and Yamazaki further teaches the antenna directionality relative to the base station is controlled on the antenna control parameter and antenna controller (102 of fig.2) control the directional signal wave converter by phase shifter such that a reliable quality signal transmission is achieved(see fig.2 and para[005]).

Re claim 27, Markhovsky and Yamazaki teach a short range wireless communication device as recited in claim 11's rejection above and is rejected given the same reasoning.

Re claim 29, Markhovsky and Yamazaki teach a short range wireless communication device as recited in claim 1's rejection above and is rejected given the same reasoning.

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5. Claim(s) 2-10 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Markhovsky as modified by Yamazaki and further in view of Harbin et al (U.S. Patent No. 5,701,583).

Re claim 2, Markhovsky discloses a wireless system (20 of fig.1) for determining the location of mobile terminal wherein Bluetooth (a short range wireless communication) technology can be combined (para[0062]) for communication system with a Master unit (21 o fig.2A) i.e. first terminal and a Slave unit (31 of fig.3A) i.e. mobile terminal that are each adapted for transmitting and receiving an information carrying signal wave through transmitter (43 of fig.2) and receiver (45 of fig.2) of Master unit's (21) and transmitter(63 of fig.3) and receiver (65 of fig. 3) of Slave unit's (31); whereby at least the Master unit(21) or the slave unit(31) comprises processor unit (40 of fig.2 and 60 of fig.3) includes a digital signal processor (74 of fig.5) that convert the signal analog to digital by converter (80 of fig.5) and decoder (46 of fig.2) decoded the receiving information carrying signal based on received signal strength indicator (119 of fig. 5); and transmitter section (41 of fig.5) includes a digital to analog converter (86 of fig.5) and frequency converter (88 of fig.5) for transmitting the signal through antenna(47 of fig.2 and 67 of fig.3); and configured to determine the actual distance by distance measuring unit(48 of fig.2 and 68 of fig.3) via processor according to the direction of the location of master and slave unit terminal(see abstract, fig.1-4,5,7para[0142]-[0144]).

But failed to disclose explicitly transmitting and / receiving information carrying signal wave with a directional characteristics. However, Yamazaki teaches mobile

station controlling antenna directionality (same field of endeavor) wherein mobile terminal comprises antenna controller (102 of ig.2), plurality of antenna (101 of fig.2), a combiner, a reception (104 of fig.2) and transmission module (105 of fig.2); and antenna controller (102) has phase shifter that control the directionality of the phased array antenna is executed by computing based on the traveling direction angel(0) (see fig.2,3,4 para [0035]-[0038][Mobile terminal received/transmitted information carrying signal wave with directional characteristics). But Yamazaki does not teaches control means that adapted to control the half power beam width (HPBW) of the directional characteristics. However, Harbin teaches wireless communication system having a scanned directional antenna (same field of endeavor) wherein base station (12 of fig.1B) includes a transmit antenna (15 of fig.1B) and receive antenna (14 of fig.1B) which are coupled to the transmit system and information transmitted to the remote station (16 of fig.1B); and base station included half power beam width for determing the control of direction of beam pattern by the controller(see col.4 lines 36-43)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit wherein transmitting and receiving information signal wave; and master unit and slave unit has a digital signal processing unit for converting the signal and measure the actual distance according to the position of the master unit and slave unit (as taught by Markhovsky) by incorporating antenna controller that has phase shifter for controlling the signal traveling direction (as taught by

Yamazaki) by including half power beam width in the azimuthal plane into the master and salve unit for controlling the directional paten of the beam width as taught by Harbin to reduce power consumption by providing narrow beam width and high gain antenna pattern in the short range wireless communication system.

Re claim 3,4 and 5, Markhovsky teaches all the limitations in combination with Yamazaki with respect to claim 2 and Yamazaki further teaches vehicles traveling direction is computed as an angel (α) to a traveling direction (fig.4) and azimuth angle (θ) is determined as an antenna control parameter (para [0034]-[0039]) but failed to discloses increases the Half Power Beam Width of the directional characteristics. However Harbin teaches a radio communication system comprises base station and remote station transmitting and receiving signals wherein base station includes half power beam width and controller control directional pattern of the antenna beam (see fig.2-3 and col.4 lines 34-43).

Re claim 6, as discussed above with respect to claim 2, Markhovsky further discloses a distance determination means determining the distance by distance measuring unit (48 of fig.2) between the master unit (21 of fig.1) i.e. first terminal and the slave unit (31 of fig.1) i.e. mobile terminal (see fig.2 and 3).

Re claim 7, as discussed above with respect to claim 6, Markhovsky further discloses that the distance measuring unit (48 of fig.2) uses voice communication

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(ultrasonic) distance measurement system (see para[0149]-[0151]).

Re claim 8, as discussed above with respect to claim 6, Markhovsky further discloses that the distance measuring unit (48 of fig.2) comprises an optical distance measurement system.

Re claim 9, as discussed above with respect to claim 6, Markhovsky further discloses that the distance measuring unit (48 of fig.2) with processor is adapted to determine the distance between the master unit (21) i.e. first terminal and the slave unit (31)mobile terminal based on a Received Signal Strength Indicator (RSSI) value (para[0139]).

Re claim 10, as discussed above with respect to claim 6, Markhovsky further discloses that the distance measuring unit (48 of fig.2) is located on the master unit(21) i.e. first terminal (see fig.2).

Re claim 28, as discussed above with respect to claim 27, Markhovsky further discloses master unit (21 of fig. 1) comprises processor unit (40 of fig.2) that control data signal and actual distance can be measured by the virtual triangular successive techniques using cosine theorem of directional characteristics between monitoring unit and slave unit (para [0228]-[0229]). But failed to discloses control the Half Power Beam Width of the directional characteristics and signal wave converter having an electro-

optical device. However, Harbin teaches base station includes half power beam width in the azimuthal plane for controlling the directional pattern of the antenna(col.4 lines 35-43).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit wherein transmitting and receiving information signal wave; and master unit and slave unit has a digital signal processing unit for converting the signal and measure the actual distance according to the position of the master unit and slave unit (as taught by Markhovsky) by incorporating antenna controller that has phase shifter for controlling the signal traveling direction (as taught by Yamazaki) by including half power beam width in the azimuthal plane into the master and salve unit for controlling the directional paten of the beam width as taught by Harbin to reduce power consumption by providing narrow beam width and high gain antenna pattern in the short range wireless communication system.

6. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Markhovsky as modified by Yamazaki as applied in claim1 and 23 above and further in view of Lecroy (U.S. Patent No. 3,897,151).

Re claim 25, Markhovsky discloses all the limitations in combination with Yamazaki with respect to claim 1 and 23 except the signal wave converter antenna comprises an electro-optical device. However, Lecroy teaches distance indicator

measurement devices wherein uses distance indicator as a electro-optical device for converting the signal (see abstract and fig.4).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify short range wireless communication system comprises master unit and slave unit wherein transmitting and receiving information signal wave; and master unit and slave unit has a digital signal processing unit for converting the signal and control the direction of the signal according to the position of the communication devices (as taught by Markhovsky) by incorporating antenna controller that has phase shifter for controlling the signal traveling direction (as taught by Yamazaki) by adapting an electro-optical device for signal converter to get exact distance and direction in communication system.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure (7.96)

The following patent are cited to further show the state of the art with respect to clips and bookmarks in general:

- U.S. Patent No. 6,229,481 to Katz teaches method and quality of radio connection.
- U.S. Patent No. 6,885,847 to Lumelsky teaches low power short range communication system.

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U.S. Patent No. 7,062,296 to Bernnan et al teaches forced beam switching

wireless communication system having smart antenna.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Muhammad Akbar whose telephone number is (571)-

270-1218. The examiner can normally be reached on Monday- Thursday (7:30 A.M.-

5:00P.M). If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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